

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P943504

Luminaire Tested: **GALN-SB8A-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26487 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

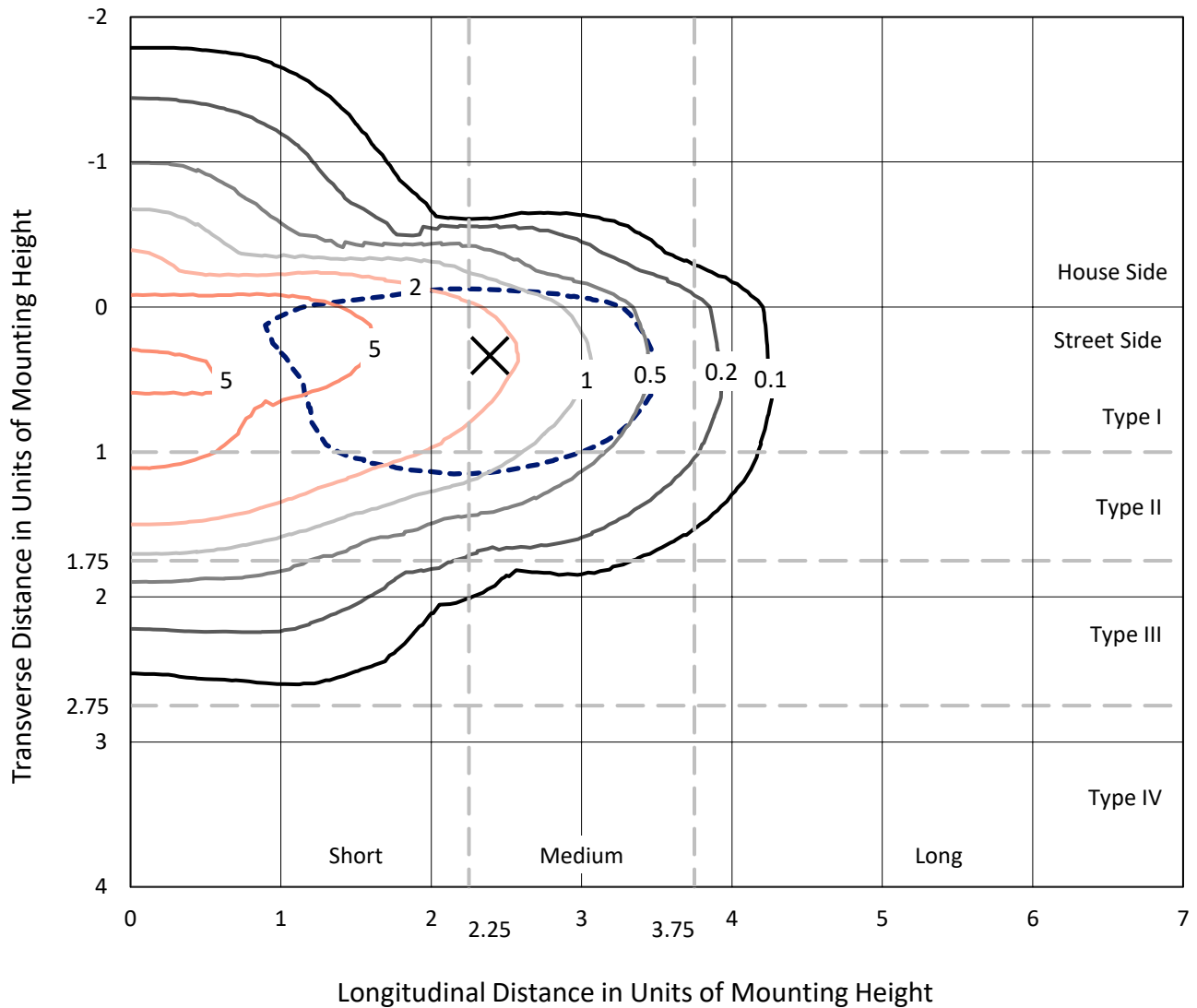
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

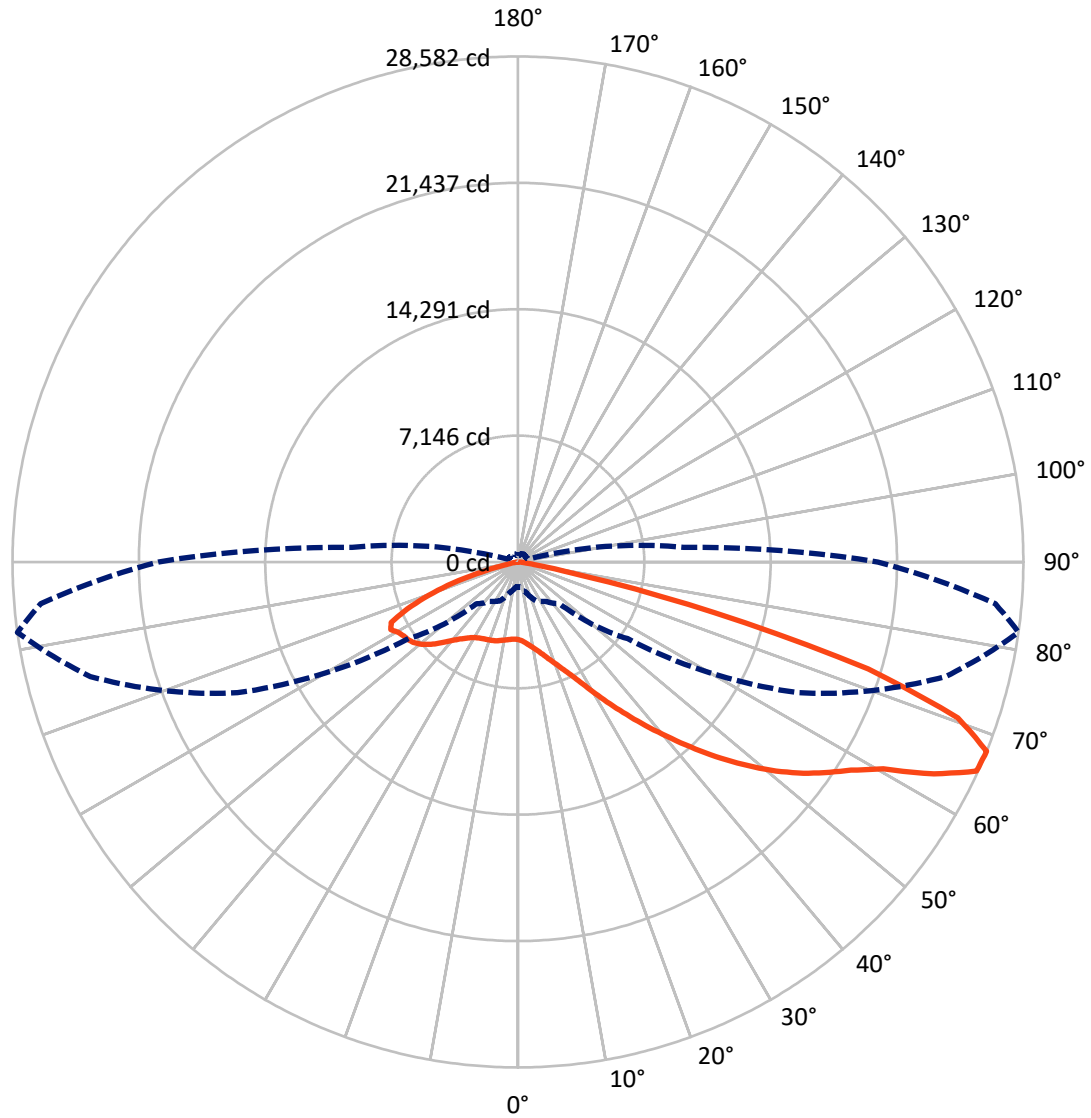
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4797.9	0.0	4797.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21689.1	0.0	21689.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	26487.0	0.0	26487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.9	1.5
10°-20°	1015.9	3.8
20°-30°	1627.1	6.1
30°-40°	2877.3	10.9
40°-50°	5041.3	19.0
50°-60°	6723.6	25.4
60°-70°	6259.3	23.6
70°-80°	2402.3	9.1
80°-90°	149.2	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26487.0	100.0
0°-180°	26487.0	100.0

Coefficient of Utilization



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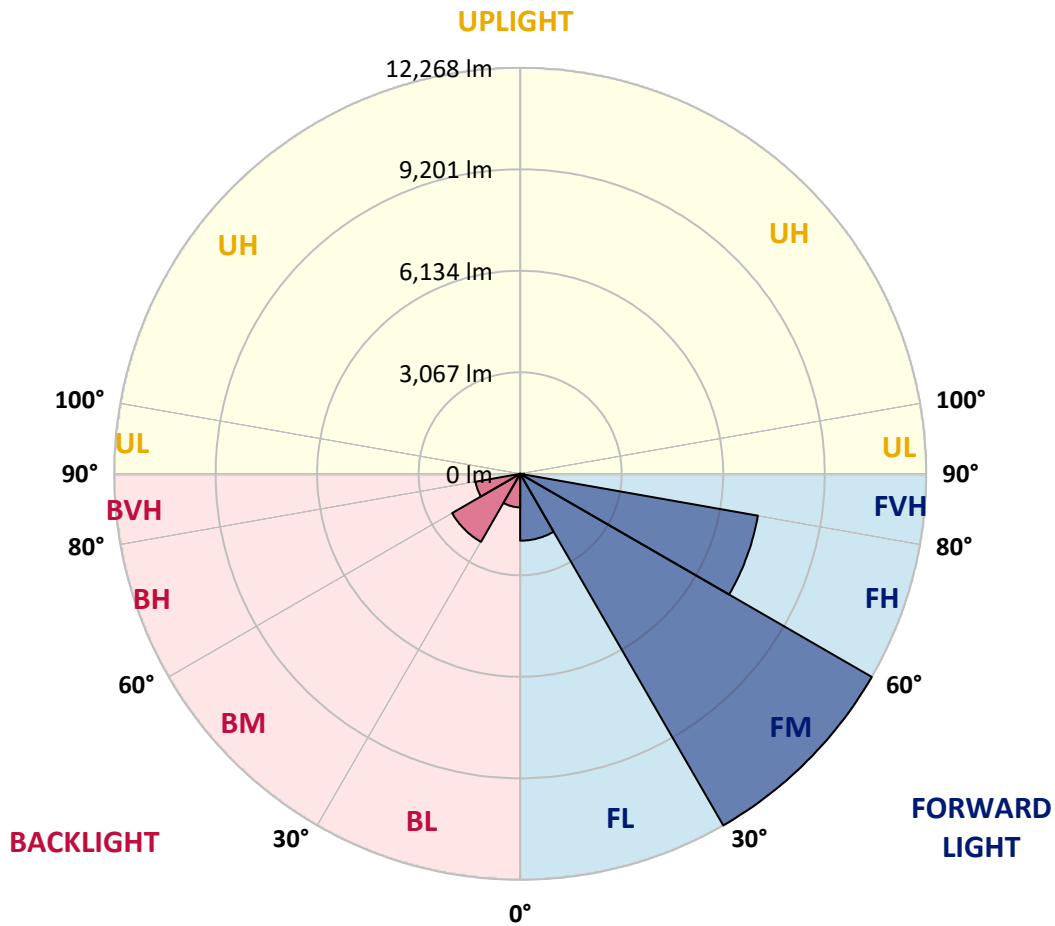
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.7	7.6			
FM (30°-60°)	12267.7	46.3			
FH (60°-80°)	7292.3	27.5			G3/7500
FVH (80°-90°)	108.5	0.4			G2/225
BL (0°-30°)	1013.3	3.8	B3/2500		
BM (30°-60°)	2374.5	9.0	B2/2500		
BH (60°-80°)	1369.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0
2.5°	4637.8	4664.5	4649.3	4641.6	4628.3	4609.2	4594.0	4546.3	4496.7	4464.3
5°	4731.3	4758.0	4756.0	4763.7	4773.2	4778.9	4775.1	4721.7	4651.2	4595.9
7.5°	4651.2	4681.7	4706.5	4744.6	4811.4	4881.9	4916.2	4904.8	4832.3	4756.0
10°	4424.2	4456.7	4515.8	4605.4	4746.5	4899.1	5026.8	5086.0	5040.2	4956.3
12.5°	4008.5	4040.9	4157.3	4351.8	4588.2	4853.3	5097.4	5255.7	5267.1	5183.2
15°	3541.3	3573.7	3697.7	3941.8	4302.2	4727.4	5135.5	5434.9	5536.0	5463.5
17.5°	3251.4	3280.0	3373.5	3569.9	3945.6	4475.7	5122.2	5625.6	5856.4	5799.2
20°	3163.7	3188.5	3232.4	3369.7	3682.4	4214.5	5034.5	5804.9	6201.6	6169.1
22.5°	3257.2	3280.0	3293.4	3354.4	3550.8	4042.8	4923.9	5988.0	6602.0	6605.8
25°	3472.6	3495.5	3480.3	3518.4	3604.2	3989.4	4881.9	6203.5	7105.5	7147.4
27.5°	3827.3	3829.2	3793.0	3791.1	3804.5	4069.5	4925.8	6434.2	7740.5	7818.7
30°	4538.7	4510.0	4370.8	4220.2	4151.5	4309.8	5047.8	6706.9	8489.9	8629.2
32.5°	5635.2	5593.2	5337.7	4977.3	4614.9	4696.9	5267.1	7017.7	9306.1	9557.9
35°	6825.1	6813.7	6546.7	6010.9	5377.7	5248.1	5623.7	7425.8	10196.7	10597.2
37.5°	7931.2	7925.5	7772.9	7141.7	6371.3	6016.6	6195.8	7959.8	11150.2	11729.9
40°	8941.9	8959.1	8806.5	8242.0	7465.9	7002.5	6973.9	8619.6	12210.5	12963.8
42.5°	9815.3	9834.4	9679.9	9262.3	8547.2	8093.3	7929.3	9428.2	13246.0	14289.1
45°	10408.4	10526.6	10503.7	10170.0	9657.0	9186.0	9077.3	10442.7	14426.4	15694.6
47.5°	10576.2	10684.9	10856.5	10902.3	10589.6	10126.2	10255.8	11665.1	15620.2	17101.9
50°	10162.4	10263.5	10620.1	11094.9	11312.3	11169.3	11401.9	12975.2	16842.6	18505.5
52.5°	9346.2	9449.2	9899.2	10650.6	11537.3	11987.4	12551.9	14266.2	18026.8	19834.7
55°	8165.8	8274.5	8852.3	9702.8	11108.3	12324.9	13511.1	15555.4	19111.9	21030.4
57.5°	6560.1	6640.2	7240.9	8430.8	10028.9	11989.3	14218.6	16962.7	20134.1	22205.1
60°	4275.5	4346.0	5044.0	6371.3	8240.1	10868.0	14359.7	18532.2	21491.9	23732.6
62.5°	2843.3	2891.0	3304.8	4279.3	5803.0	8715.0	13534.0	19785.1	23482.8	26390.9
65°	1950.9	1998.5	2412.4	3091.2	3749.2	5764.9	11159.7	19619.2	25286.8	28502.0
67.5°	1392.1	1432.2	1783.0	2423.8	2713.7	3348.7	7565.1	17498.6	25027.4	28582.1
70°	997.4	1020.2	1310.1	1887.9	2156.8	2011.9	4206.8	13383.3	21913.3	26392.8
72.5°	698.0	705.6	909.6	1437.9	1737.3	1468.4	2002.3	8922.8	16573.7	20715.7
75°	472.9	482.5	612.1	1054.6	1394.0	1121.3	1060.3	4784.7	9729.5	11466.8
77.5°	289.9	293.7	394.7	720.8	1043.1	854.3	682.7	2027.1	3764.4	3695.8
80°	164.0	164.0	251.7	448.1	711.3	551.1	478.7	862.0	1191.9	1046.9
82.5°	91.5	93.4	183.1	278.4	471.0	326.1	263.2	398.6	514.9	455.8
85°	38.1	42.0	112.5	131.6	225.0	162.1	106.8	167.8	190.7	169.7
87.5°	3.8	5.7	34.3	24.8	26.7	32.4	15.3	32.4	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4388.0	0°	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0
4452.8	2.5°	4416.6	4388.0	4315.5	4231.6	4121.0	4067.6	3995.2	3945.6	3903.6	3907.4
4563.4	5°	4502.4	4430.0	4267.9	4065.7	3814.0	3634.7	3444.0	3312.5	3205.7	3182.8
4716.0	7.5°	4620.7	4506.2	4222.1	3857.9	3432.6	3110.3	2822.4	2637.4	2505.8	2463.8
4901.0	10°	4773.2	4607.3	4163.0	3596.6	2984.4	2574.4	2265.5	2120.6	2031.0	2000.4
5118.4	12.5°	4950.6	4723.6	4084.8	3278.1	2523.0	2128.2	1931.8	1859.3	1830.7	1821.2
5385.4	15°	5173.7	4868.6	3966.6	2900.5	2132.0	1855.5	1771.6	1762.1	1765.9	1762.1
5705.7	17.5°	5438.8	5026.8	3773.9	2511.5	1868.9	1716.3	1685.8	1693.4	1702.9	1701.0
6064.2	20°	5728.6	5183.2	3527.9	2166.3	1689.6	1617.1	1600.0	1607.6	1615.2	1611.4
6478.1	22.5°	6058.5	5351.0	3255.2	1897.5	1569.5	1525.6	1506.5	1508.4	1508.4	1500.8
7002.5	25°	6453.3	5536.0	2969.2	1706.8	1477.9	1443.6	1420.7	1413.1	1401.6	1378.8
7639.4	27.5°	6924.3	5732.4	2694.6	1573.3	1405.5	1373.0	1346.3	1327.3	1298.7	1260.5
8404.1	30°	7454.5	5970.8	2461.9	1489.4	1348.2	1315.8	1285.3	1256.7	1214.8	1167.1
9283.3	32.5°	8078.0	6226.3	2292.2	1434.1	1296.8	1262.4	1226.2	1191.9	1146.1	1098.4
10271.1	35°	8821.8	6535.3	2193.0	1395.9	1256.7	1210.9	1170.9	1132.8	1098.4	1056.5
11344.7	37.5°	9628.4	6863.3	2162.5	1376.9	1230.0	1159.5	1113.7	1087.0	1083.2	1058.4
12506.1	40°	10511.4	7252.3	2185.4	1365.4	1201.4	1109.9	1060.3	1054.6	1064.1	1020.2
13747.5	42.5°	11445.8	7713.8	2223.6	1352.1	1161.4	1060.3	1012.6	1012.6	1005.0	944.0
15059.6	45°	12456.5	8245.9	2261.7	1319.6	1113.7	1010.7	974.5	961.1	928.7	869.6
16379.2	47.5°	13474.8	8787.4	2290.3	1260.5	1056.5	968.8	936.3	905.8	858.1	804.8
17674.0	50°	14441.7	9273.7	2259.8	1172.8	991.6	928.7	894.4	852.4	800.9	764.7
18900.2	52.5°	15305.6	9695.2	2130.1	1069.8	923.0	886.8	856.2	812.4	770.4	732.3
20006.3	55°	16056.9	10036.5	1901.3	972.6	862.0	850.5	820.0	764.7	707.5	675.1
21102.8	57.5°	16777.8	10295.9	1615.2	892.5	806.7	810.5	764.7	715.1	661.7	627.4
22580.7	60°	17737.0	10642.9	1325.4	818.1	747.5	759.0	709.4	673.2	606.4	562.6
25115.1	62.5°	19270.2	11182.6	1052.7	726.6	678.9	682.7	661.7	617.9	537.8	486.3
26993.5	65°	20486.9	10984.3	829.5	627.4	600.7	606.4	606.4	558.8	472.9	413.8
27094.6	67.5°	20349.6	9405.3	661.7	530.1	526.3	530.1	543.5	503.4	419.5	371.9
25031.2	70°	18745.8	7481.1	530.1	440.5	457.7	448.1	486.3	459.6	377.6	329.9
19405.6	72.5°	15296.0	5389.2	404.3	364.2	350.9	366.1	438.6	413.8	314.7	261.3
10278.7	75°	8938.1	2875.8	301.3	288.0	253.6	305.1	389.0	352.8	240.3	192.6
3150.4	77.5°	2910.1	1003.1	221.2	211.7	188.8	246.0	331.8	297.5	196.4	152.6
923.0	80°	780.0	303.2	150.7	139.2	122.0	183.1	263.2	236.5	141.1	99.2
396.7	82.5°	312.7	127.8	87.7	78.2	66.7	125.9	207.9	190.7	104.9	62.9
124.0	85°	101.1	42.0	32.4	24.8	30.5	78.2	124.0	129.7	74.4	32.4
19.1	87.5°	13.3	5.7	5.7	7.6	5.7	13.3	38.1	36.2	21.0	3.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4388.0
3869.3
3131.3
2421.9
1977.6
1815.5
1760.2
1697.2
1609.5
1497.0
1374.9
1256.7
1163.3
1100.3
1052.7
1056.5
1022.2
944.0
867.7
802.8
759.0
728.5
671.3
623.6
556.8
482.5
408.1
364.2
324.2
255.5
186.9
146.8
97.3
62.9
24.8
0.0
0.0

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